Order-No.: DD+DIS025.00E

1 Piece QKYRH MA1

July 2000

ADC System Components

CCM-Tool

Section 6.2

Network Configuration:

Creation and Adaptation of the Configuration File (Version 10xx)

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1 Adaptation of the Configuration File

Before you start the adaptation of the configuration file to the customer specific network parameters, assign the necessary addresses and names with the local network administrator. Note the data in the enclosed form.

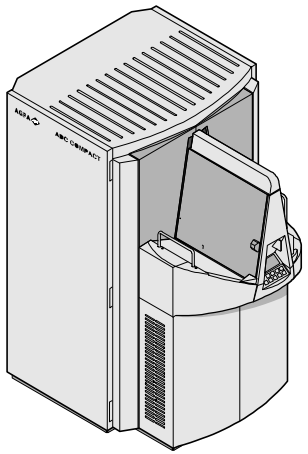
1.1 Which Data is necessary for the Configuration?

The following data is mandatory:

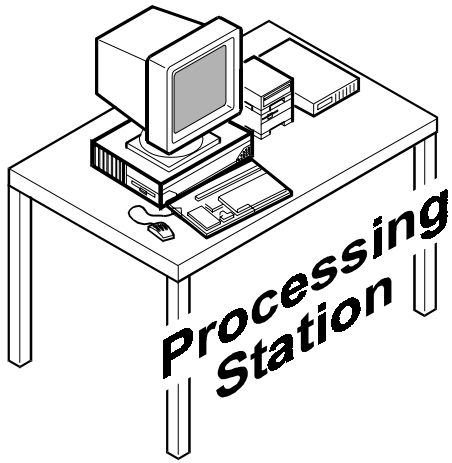
- hostname
- ip-adress
- AE-title
- stationname

Below and on the next page you see an example of an ADC System installation. It illustrates all necessary network data, which you assigned together with the application specialist and the local network administrator.

hostname:	**scan202**
ip_addr.:	**192.9.200.202**
subnet_mask:*	**<** **>**
default router:*	**<** **>**
AE_title:	**ADC_Compact**
StationName:	**Scanner_202**

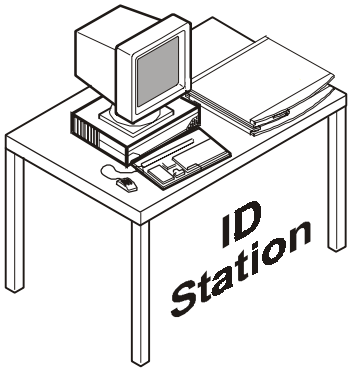


hostname:	**vips203**
ip_addr.:	**192.9.200.203**
subnet_mask:*	**<** **>**
default router:*	**<** **>**
AE_title:	**VIPS203**
StationName:	**Vips_203**

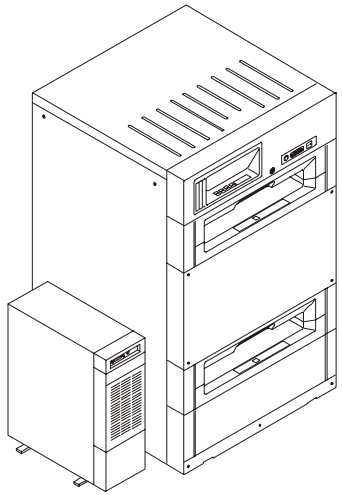


*dependent on the local network of the hospital.

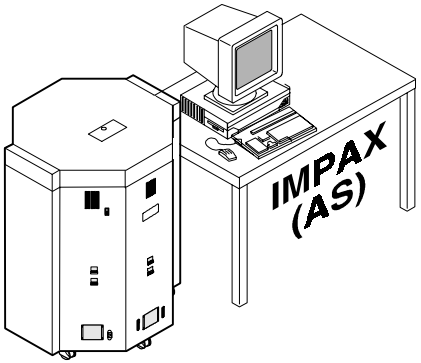
hostname:	**Id207**
ip_addr.:	**192.9.200.207**
subnet_mask:*	**<** **>**
default router:*	**<** **>**
AE_title:	**ID207**
StationName:	**ID-Station_207**



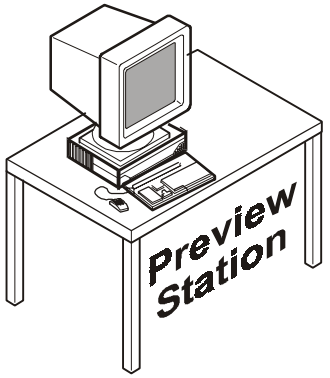
hostname:	**mg1**
ip_addr.:	**192.9.200.201**
subnet_mask:*	**<** **>**
default router:*	**<** **>**
AE_title:	**ADCC_LR1**
StationName:	**ADCC_Print_201**



hostname:	**Idrars1**
ip_addr.:	**192.9.200.103**
subnet_mask:	**<** **>**
default router:	**<** **>**
AE_title:	**AS1**
StationName:	**Impax_Arch.-1**



hostname:	**prev206**
ip_addr.:	**192.9.200.206**
subnet_mask*:	**<** **>**
default router:*	**<** **>**
AE_title:	**PREV206**
StationName:	**Preview_206**



*dependent on the local network of the hospital.

1.2 Edit the Configuration File with the CCM Tool

- Start the CCM Tool on your Service PC by double-clicking the CCM Icon.
- Type in your name (used for history and session information) and confirm.
- Click button **<Create CPF from scratch>**.

If the left 2 buttons are disabled, you have to click **<CLEAR all tables>**.

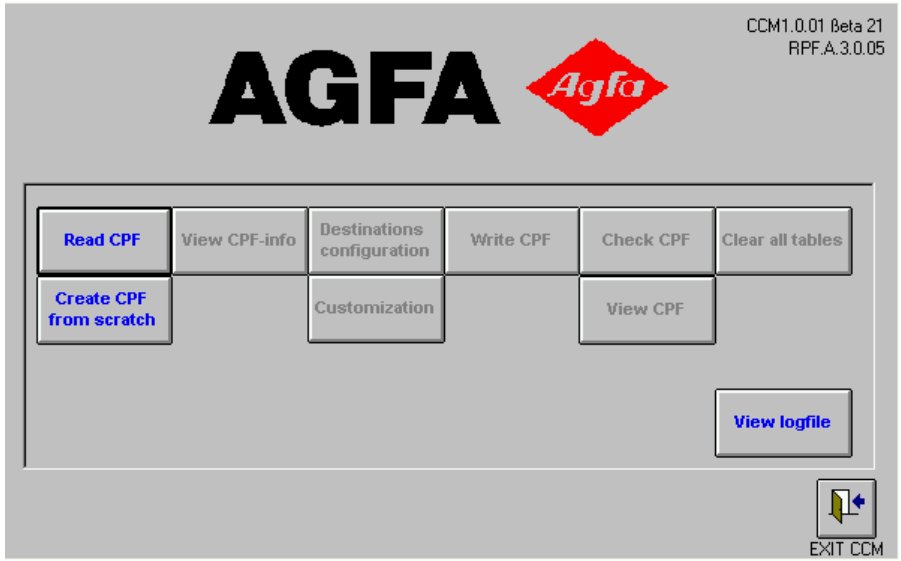


Figure 1

- Choose the RPF language (Language of the examinations) and confirm.

basic = English.

- Click button **<Destinations configuration>**.

1.2.1 Menu <Destinations Configuration>

Fill in the network parameters in the following sequences:
Installation of devices:
Network - Application - Devices.
Deinstallation of devices:
Devices - Application - Network

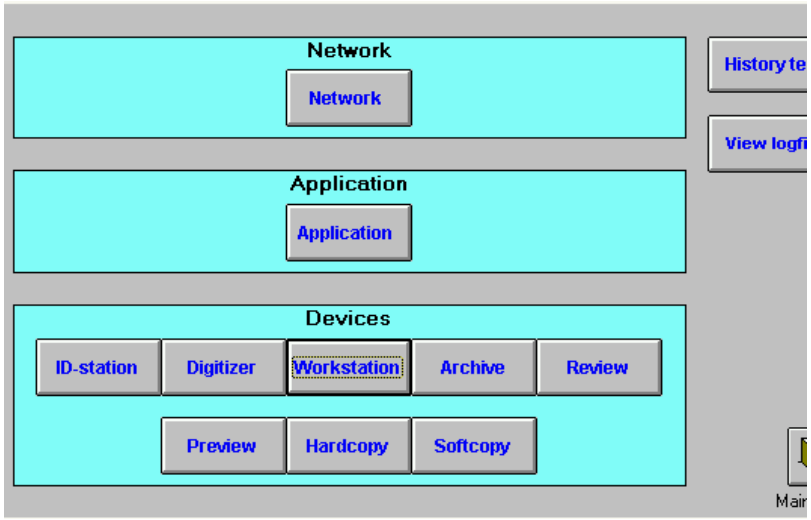


Figure 2

1.2.2 Menu <Network Hosts>

- Click button **<Network>**.
- Click button **<ADD>**.

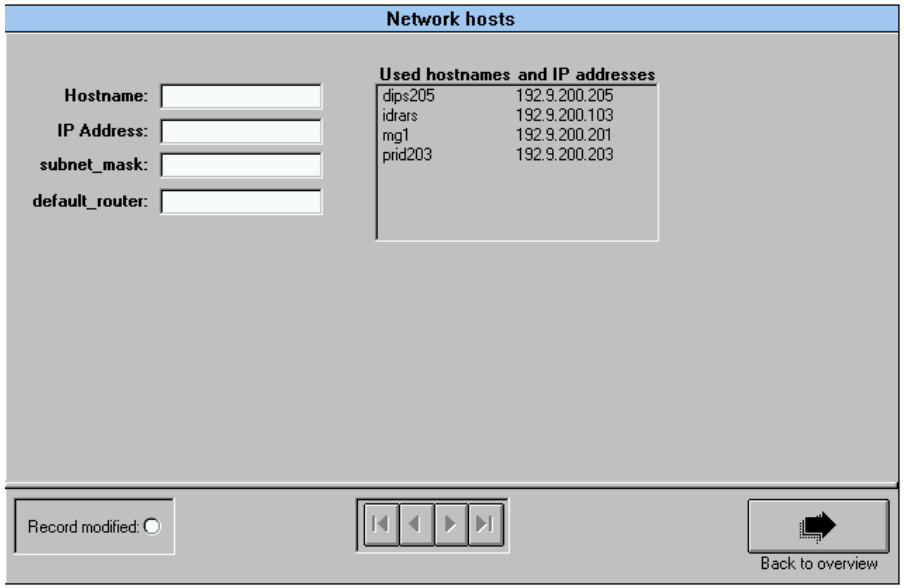


Figure 3

- Type in the network data (hostname, IP address and if required the subnet_mask and the default_router).
- Repeat this until all network components are added.
- Click button **<Back to overview>** (the data will be stored).

Example of a completely filled Menu

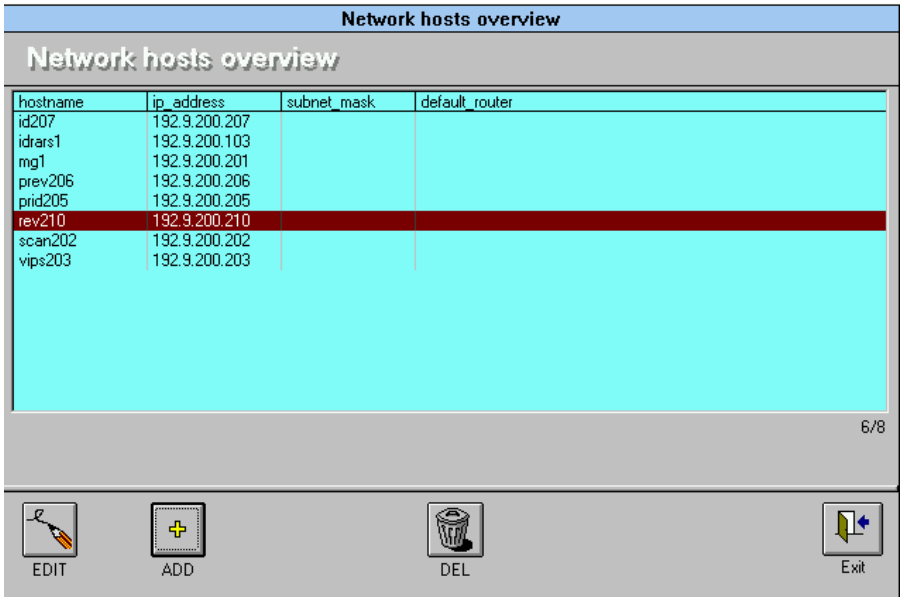


Figure 4

The data in the window are only examples.

- Click button **<Exit>**.

1.2.3 Menu <Application type Information>

- Click button **<Application>**.
- Click button **<ADD>**.

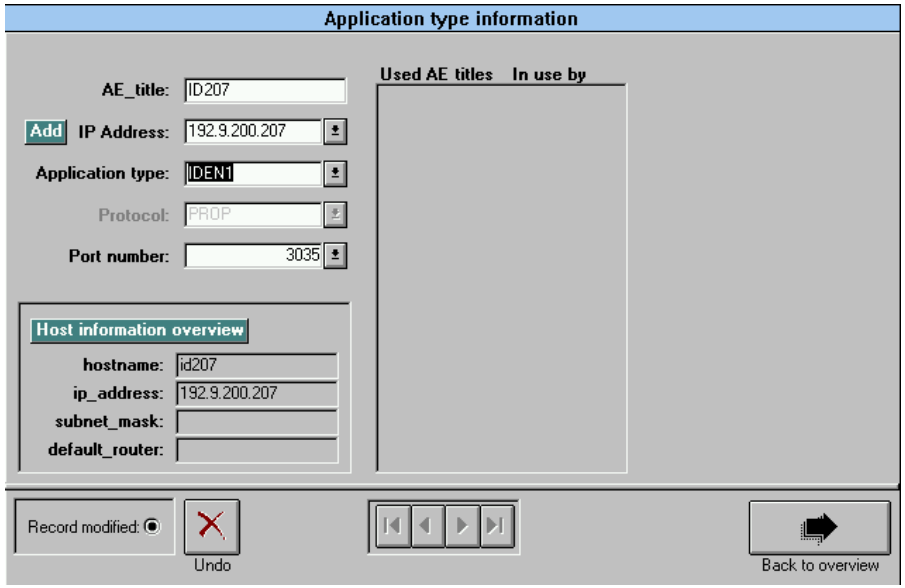


Figure 5

- Type in the AE_title.
- Select the belonging IP_adress.
- Select the belonging Application type (see table beside).
- Check the pre-determined Protocol and Port number or change it (see table beside).
- Repeat this for all network components.
- Click button **<Back to overview>**.

Example

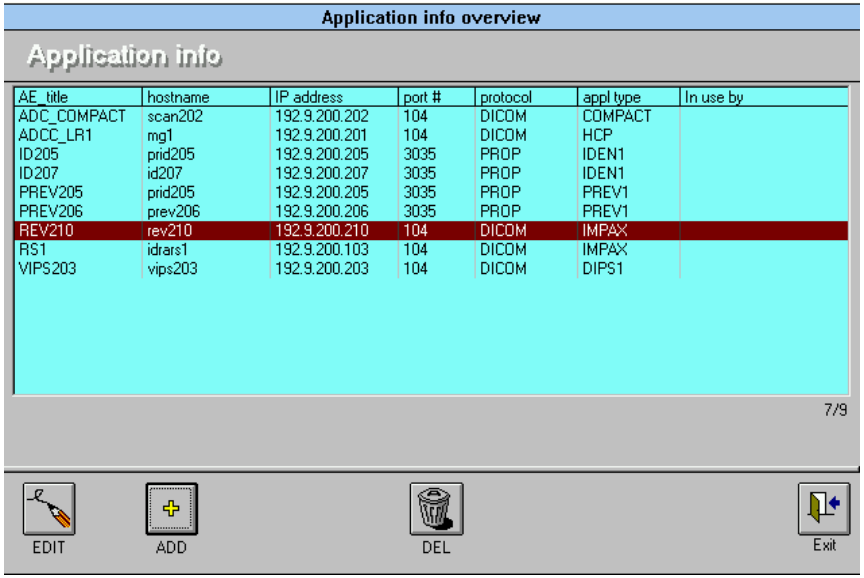

Application info overview
Application info
AE_title hostname IP address port # protocol appl type In use by
ADC_COMPACT scan202 192.9.200.202 104 DICOM COMPACT
ADCC_LR1 mg1 192.9.200.201 104 DICOM HCP
ID205 prid205 192.9.200.205 3035 PROP IDEN1
ID207 id207 192.9.200.207 3035 PROP IDEN1
PREV205 prid205 192.9.200.205 3035 PROP PREV1
PREV206 prev206 192.9.200.206 3035 PROP PREV1
REV210 rev210 192.9.200.210 104 DICOM IMPAX
RS1 idrars1 192.9.200.103 104 DICOM IMPAX
VIPS203 vips203 192.9.200.203 104 DICOM DIPS1
7/9
EDIT
ADD
DEL
Exit

Figure 6

- click button **<Exit>**.

Application types	Protocol	Port #	Comment
IMPAX	DICOM	104	archive for AGFA NWG
IMPAX	DICOM	depends on destination	review for 3rd party stations only
HCP	DICOM	104	Hardcopy destination type
SCP	NFS	0	Softcopy destination type
PS5000	DICOM	104	PS5000 applic.; only for ADC 70
COMPACT	DICOM	104	ADC COMPACT application
DIPS1	DICOM	104	Image processing workstation application
PREV1	PROP	3035	PREVIEW STATION application
IDEN1	PROP	3035	ID STATION application

1.2.4 Menu „DEVICES“ ⇒ <ID-Station>- <Digitizer> - <Workstation>

- Click button **<ID-Station>**
- Click button **<ADD>**

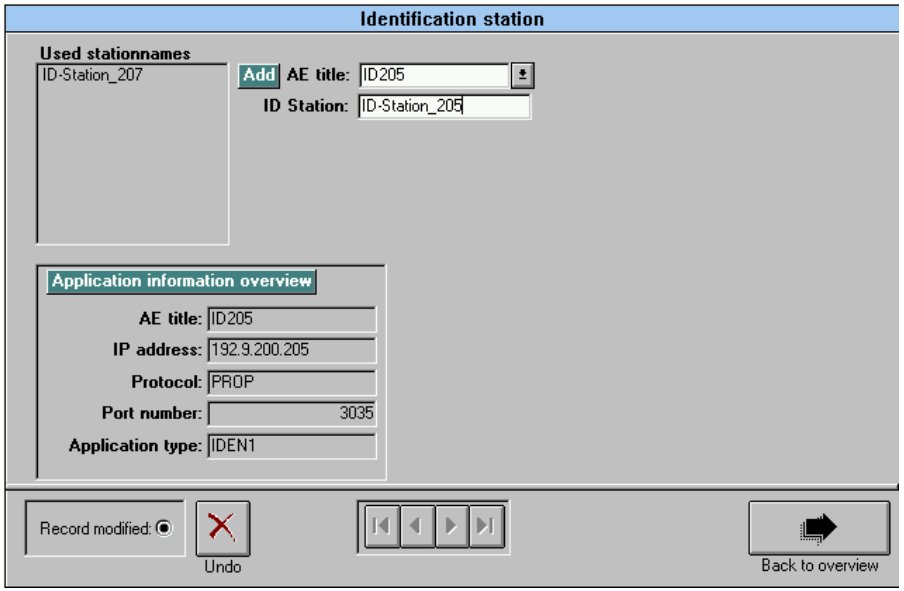


Figure 7

- Select the ID-Station via AE_title.
- Type in the IDStationName respectevely the destination name.
- Repeat this for all ID-Stations.
- Click button **<Back to overview>**.
- Repeat the procedure for **<Digitizer>** and **<Workstation>**.

Example

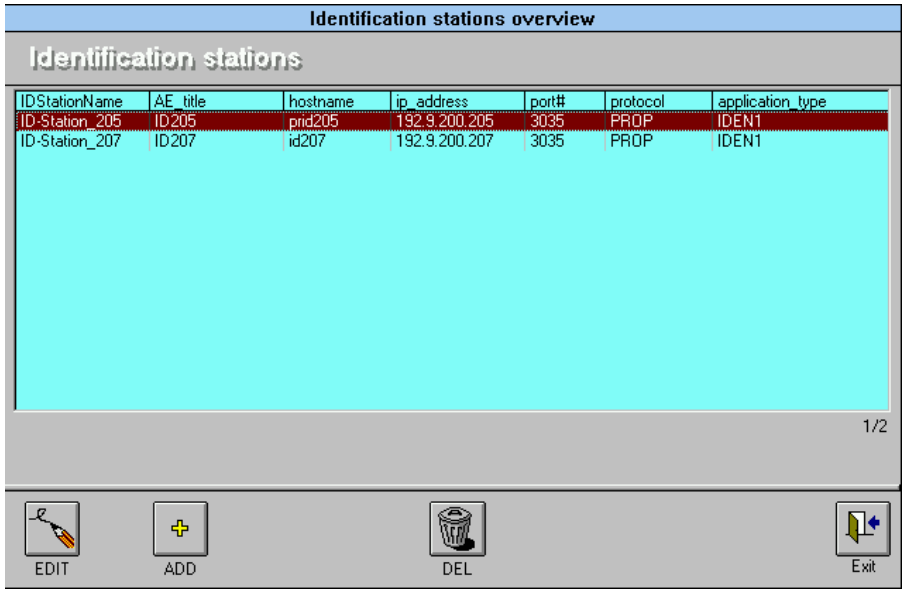


Figure 8

- Click button **<Exit>**.

1.2.5 Menu <Archive destinations>

- Click button **<Archive>**.
- Click button **<Add>**.

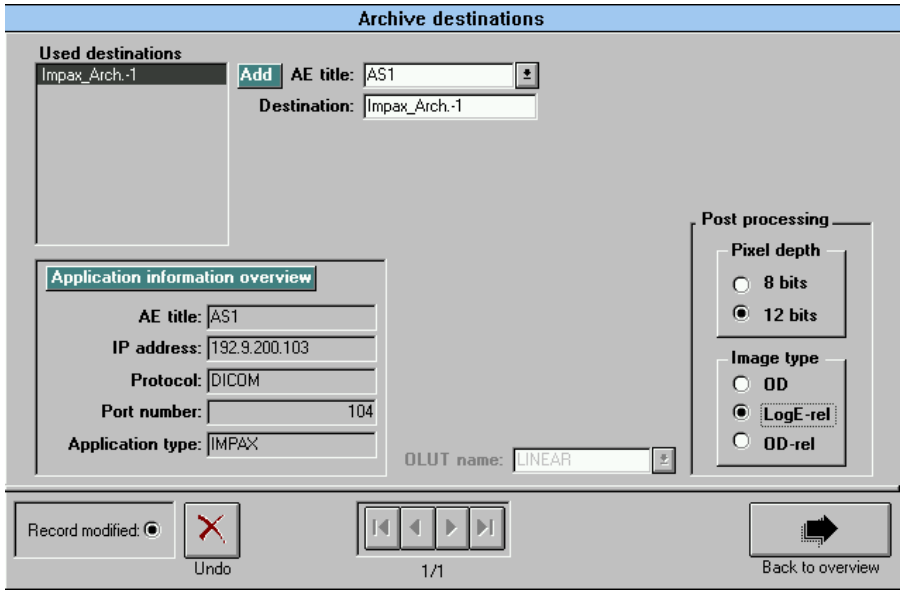


Figure 9

- Select the Archive Station via AE_title.
- Type in the Destination (name).
- Click button **<Back to overview>**.

The images have to be sent to a Network Gateway!

- **For IMPAX we recommend the following selections:**
- Pixel depth: **12 bits**.
- Image type: **LogE-rel**.
- OLUT: **LINEAR**

Example

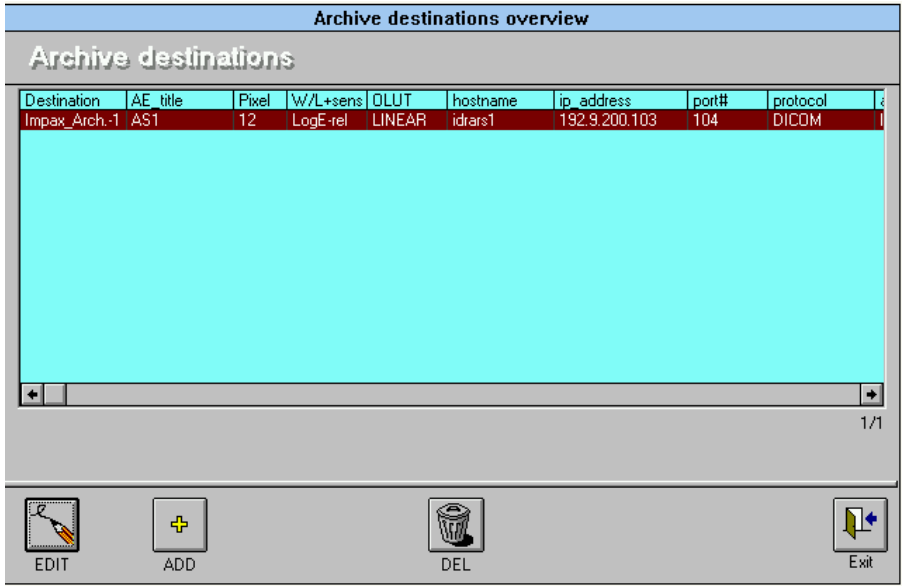


Figure 10

- Click button **<Exit>**.

1.2.6 Menu <Review destinations>

- Click button **<Review>**.
- Click button **<Add>**.

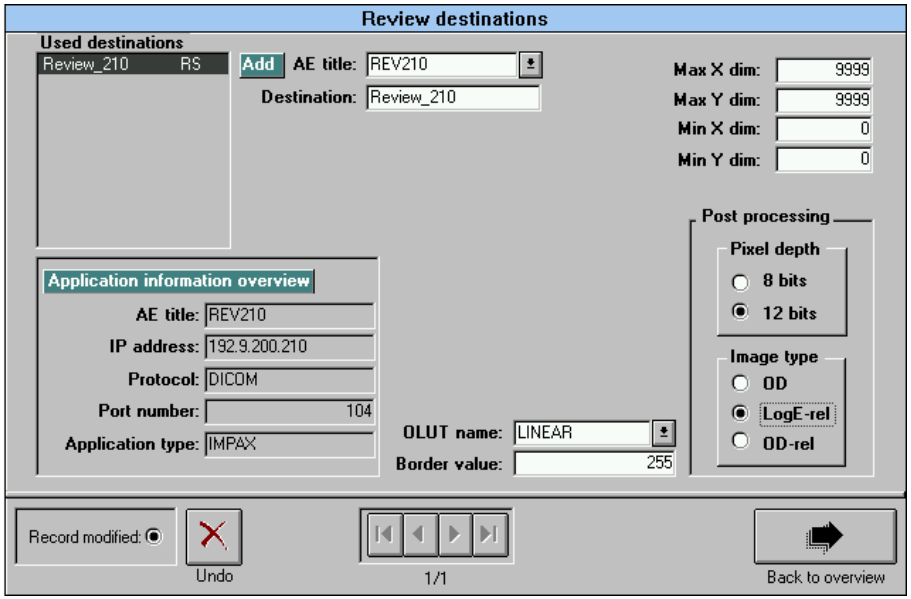


Figure 11

- Select the Review Station via AE_title.
- Type in the Destination (name) of the 3rd party device.
- Click button **<Back to overview>**.

ADC COMPACT --> IMPAX:

- Do not send images directly to an IMPAX Review Station!
- The images have to be sent to an IMPAX via a Network Gateway module. The routing has to be done by the NG.

ADC COMPACT → 3rd Party:

- Ask the local system administrator or better the project responsible.

- **Selections for IMPAX:**

Pixel depth:	12 bits	**Min X/Y dim:**	0
Image type:	LogE-rel	**Max X/Y dim:**	9999
OLUT:	LINEAR		

Example

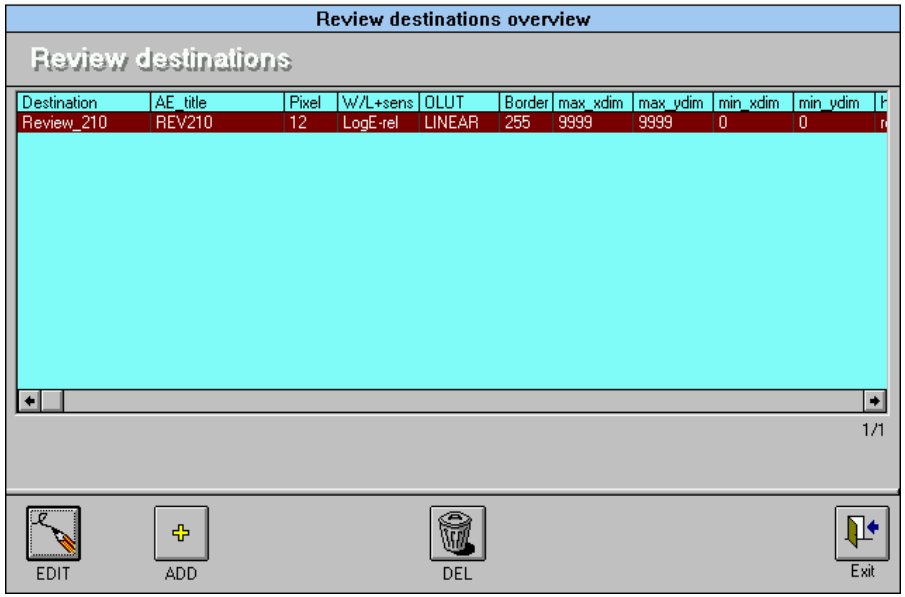


Figure 12

- click button **<Exit>**.

1.2.7 Menu <Preview destinations>

- Click button **<Preview>**.
- Click button **<Add>**.

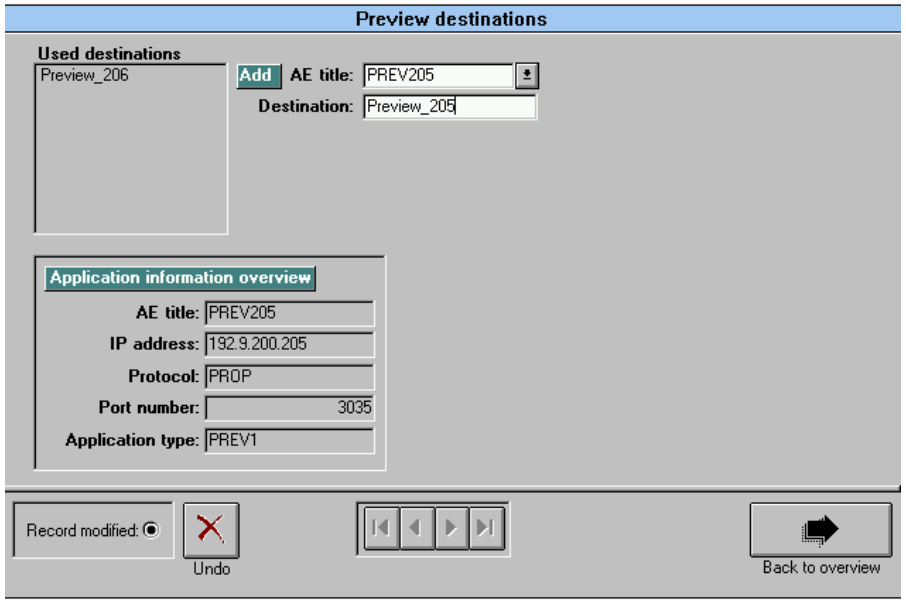


Figure 13

- Select the Preview Station via AE_title.
- Type in the Destination (name).
- Click button **<Back to overview>**.

Example

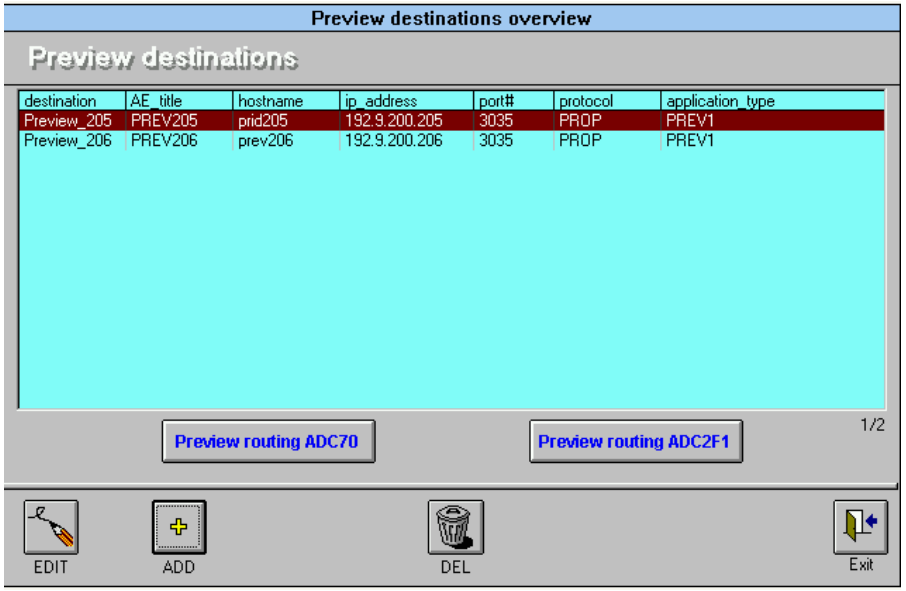


Figure 14

- Click button **<Preview routing ADC2F1>**.

1.2.8 Menu <Preview routing for ADCF1>

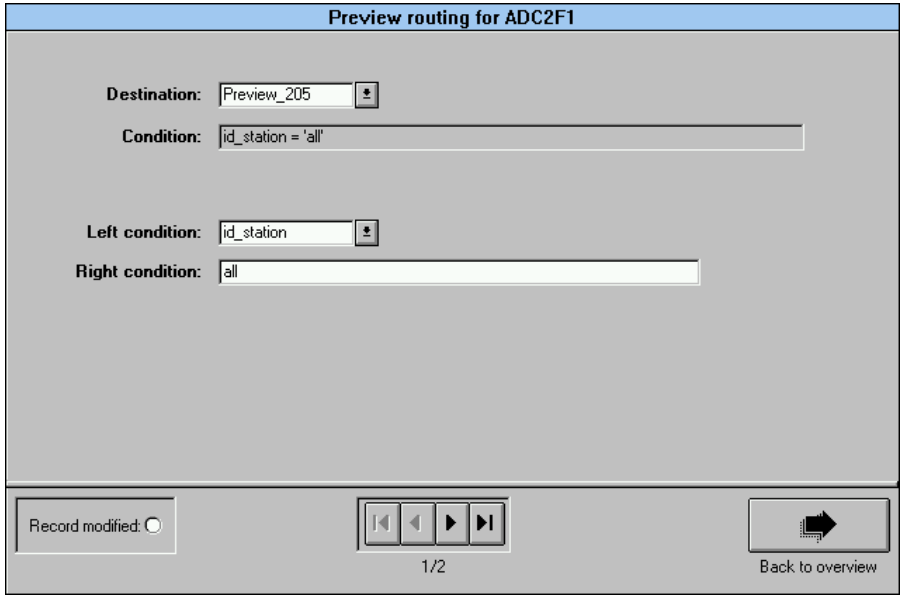


Figure 15

- Recommended selection:
  - Select the Preview–Destination.
  - Select **<id_station>** in field **<Left condition>**.
  - Type in **all** in field **<Right condition>** (without any apostrophes marks).

The text in the field "Condition" appears after the record was modified.

  - Click button **<Back to overview>**.

All other routings conditions have to be done by the application specialist.

Example

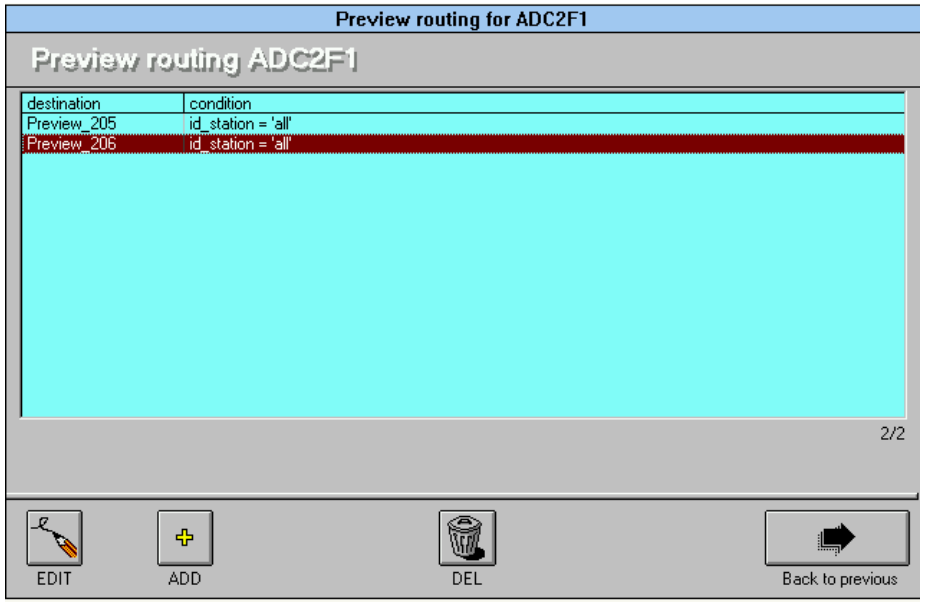


Figure 16

- Click button **<Back to overview>**.
- Click button **<Exit>**.

1.2.9 Menu <Hardcopy destinations>

- Click button **<Hardcopy>**.
- Click button **<Add>**.

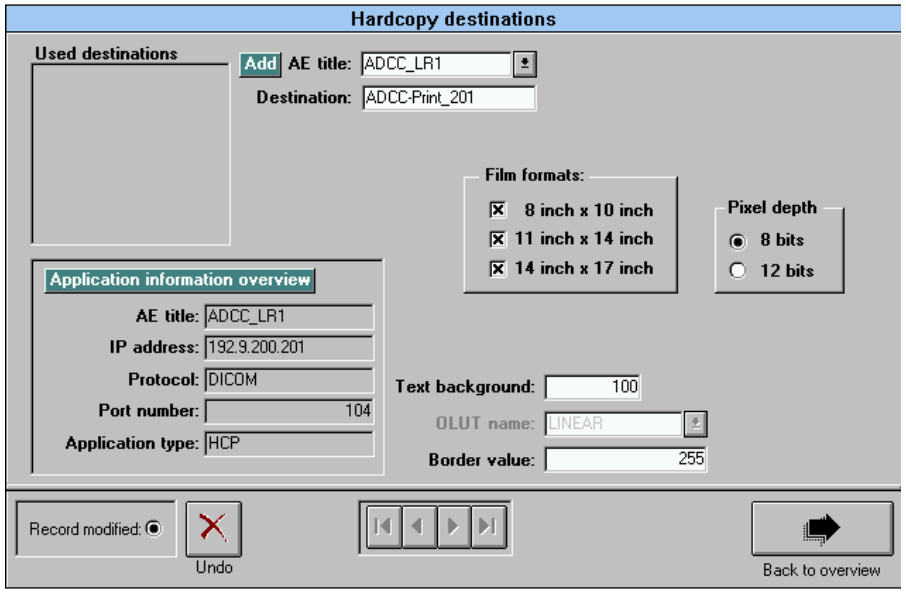


Figure 17

- Select the Hardcopy Destination via AE_title.
- Type in the Destination (name).
- Click button **<Back to overview>**.

- For AGFA Hardcopy destinations select:
  Pixel depth: 8 bits.
- For 3rd party ask the local hospital system administrator.

Example

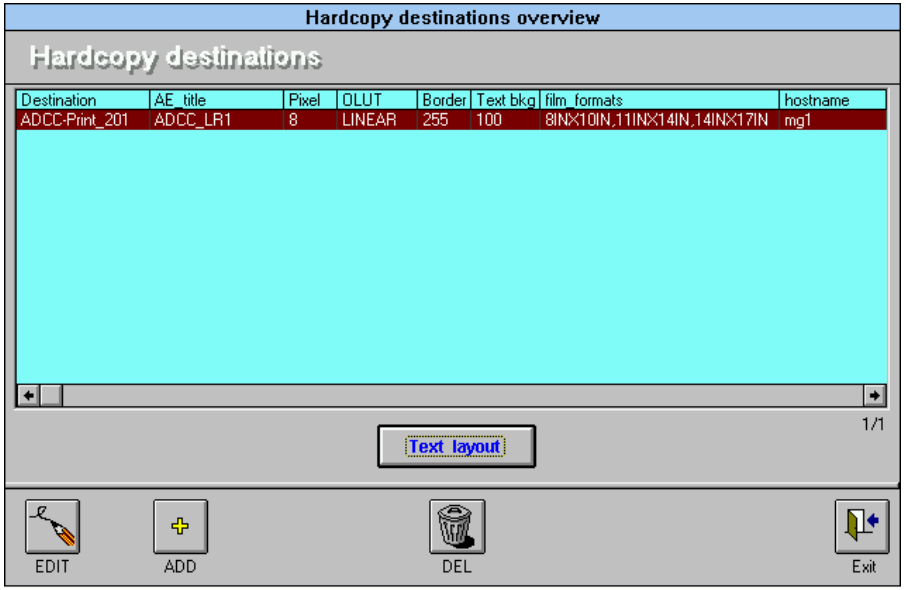


Figure 18

- Click button **<Exit>**.

1.2.10 Menu <Softcopy destinations>

- Click button **<Softcopy destination>**.
- Click button **<Add>**.

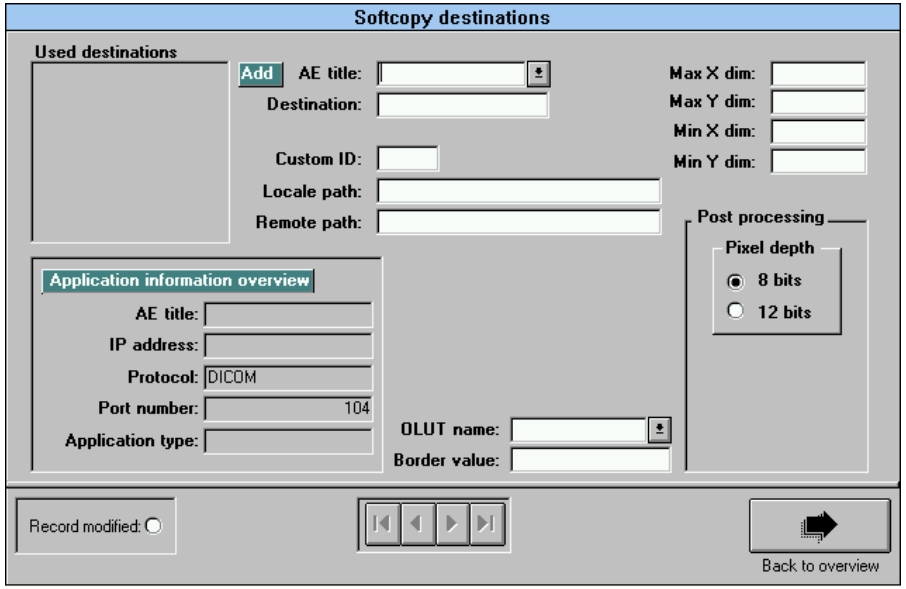


Figure 19

- Select the Softcopy destination via AE_title.
- Type in the Destination (name).
- Click button **<Back to overview>**.
- Click button **<Exit>**.
- Click button **<Main menu>**.

The further softcopy configuration has to be done by the application specialist.

1.2.11 Install Examination for Test purpose

For functionallity tests and image evaluation same examinations have to be installed.

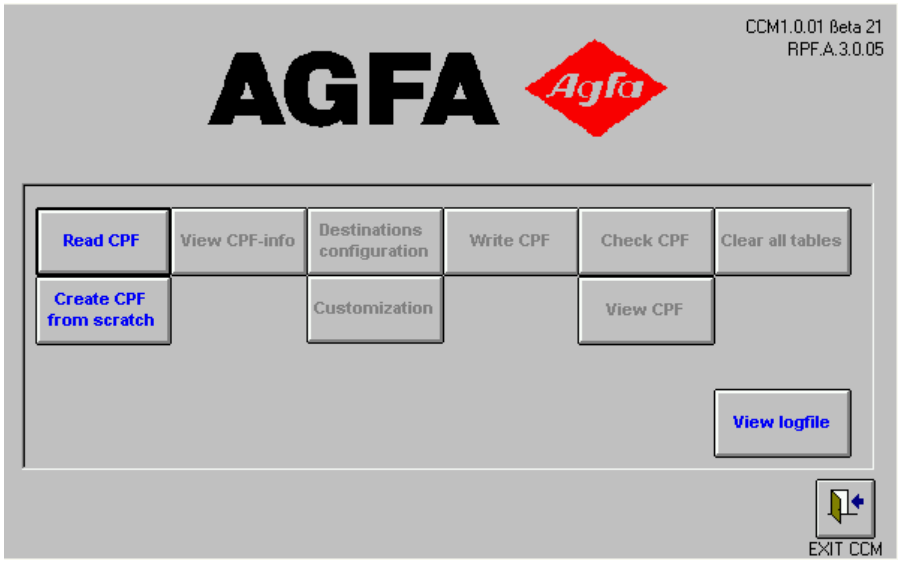


Figure 20

- Click button **<Customization>**.

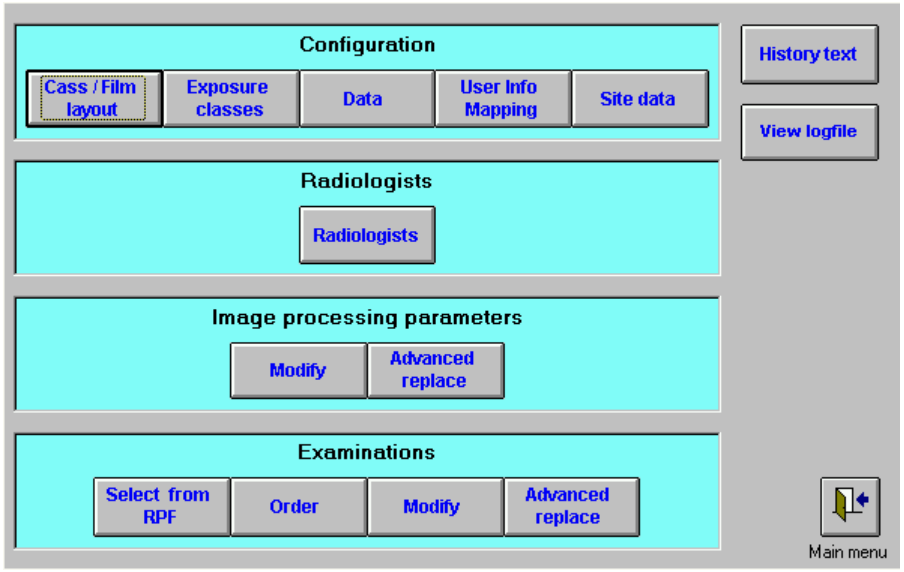


Figure 21

- click button **<Select from RPF>**.

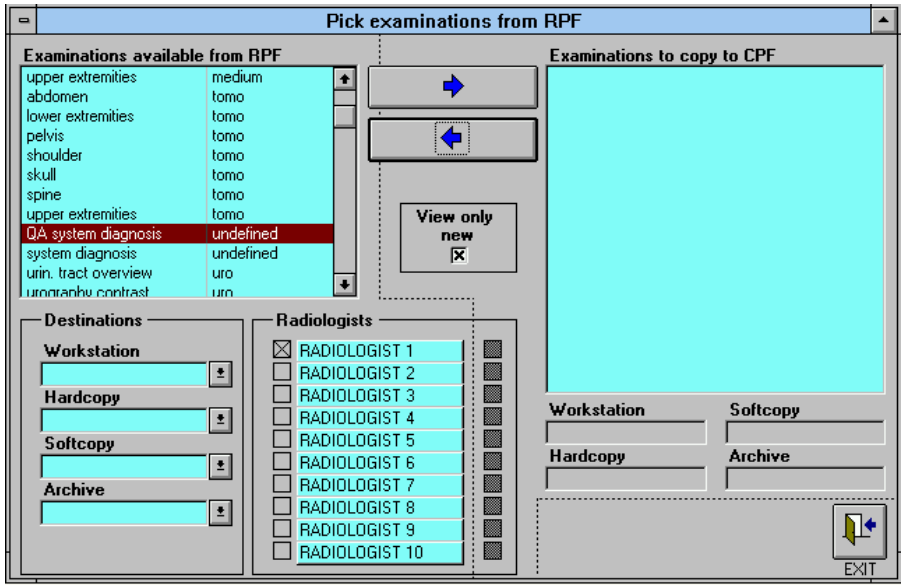


Figure 22

- Click on **one** RADIOLOGIST.

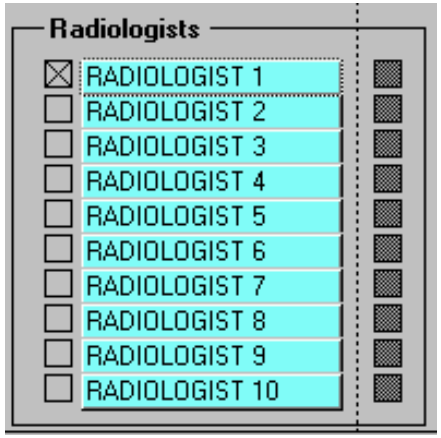


Figure 23

- Click on the examination group ***<system diagnosis>*** (left window of the menu).
- Click the button to copy these examination group to the right window of the menu.

- For copying prepared examination(s) appears in the right window.

- Select 2nd examination group ***<QA system disgnosis>*** in the same way as before.
- Select a Workstation destination.
- Click button **<Exit>**.

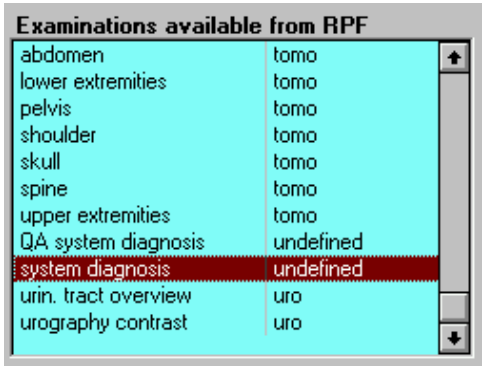


Figure 24

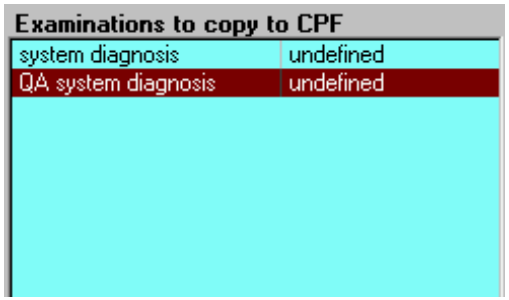


Figure 25

Figure 26

1.2.12 Finish Configuration

- Click button **<Site data>**.

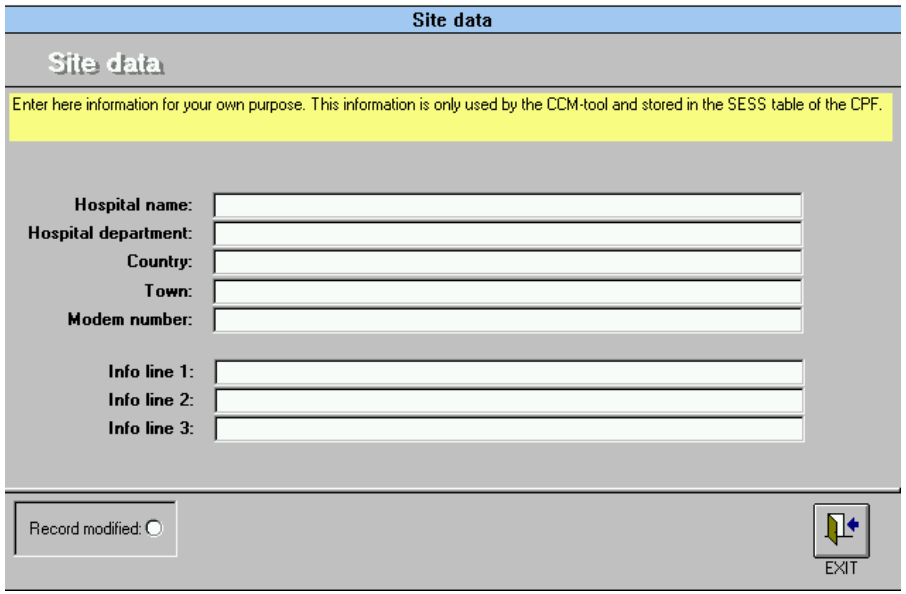


Figure 27

- Type in the site data.
- Click button **<Exit>**.

- If you have any comments click button **<History text>**.

- If you have any comments click button **<History text>**.

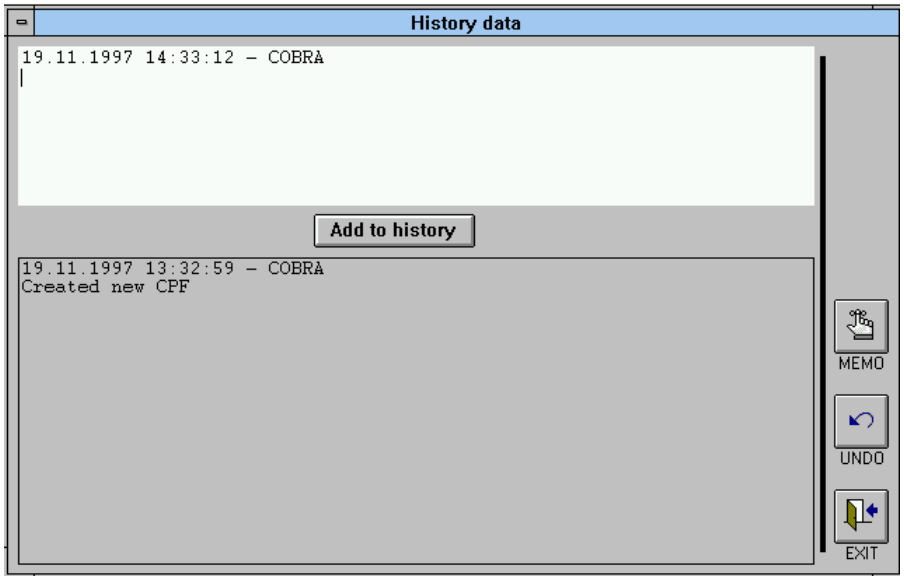


Figure 28

- Click button **<Add to history>**.
- Type in your comments.
- Click button **<Exit>**.
- Click button **<Main menu>**.

- Click **<Write CPF>** and select drive a:\ to save the file **adc.cpf** to the floppy.
- Click **<Clear all tables>** (clears PC memory).
- Click **<Exit CCM>** to close the CCM tool.